

SOLENOID CONTROL USING VOLTAGE CONTROL OF FREEWHEEL CURRENT DECAY

ABSTRACT OF THE DISCLOSURE

In a vehicle fuel-injection system, additional voltage is applied to an otherwise current-controlled valve solenoid so as to increase the time window over which freewheeling current in the solenoid decreases from a pull-in level to a hold level. The time during which the Beginning of Injection Pulse (BIP) signal is detected is thereby increased.